

**ZACE2: A HUMAN METALLOENZYME****ABSTRACT OF THE DISCLOSURE**

Angiotensin-converting enzyme is a zinc metallopeptidase that plays roles in blood pressure regulation and fertility. The catalytic activities of angiotensin converting enzymes include the production of the potent vasopressor angiotensin II from angiotensin I, and the inactivation of the vasodilatory peptide bradykinin. Zace2 is a new form of human zinc metallopeptidase, characterized as an angiotensin converting enzyme paralog that is expressed primarily in tissues of the digestive system. Two murine orthologs are also described.

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